



# **USACE IT/IM Migration Strategy**

Decision Briefing  
Board of Directors  
5 February 1998

## Report Documentation Page

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# Agenda

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- Mission
- IT/IM Strategic Planning Process
- Architecture 2000+ Overview
- How IT/IM Strategy supports Campaign Plan
- Corporate IT Initiatives for CY 1998
- Conclusion

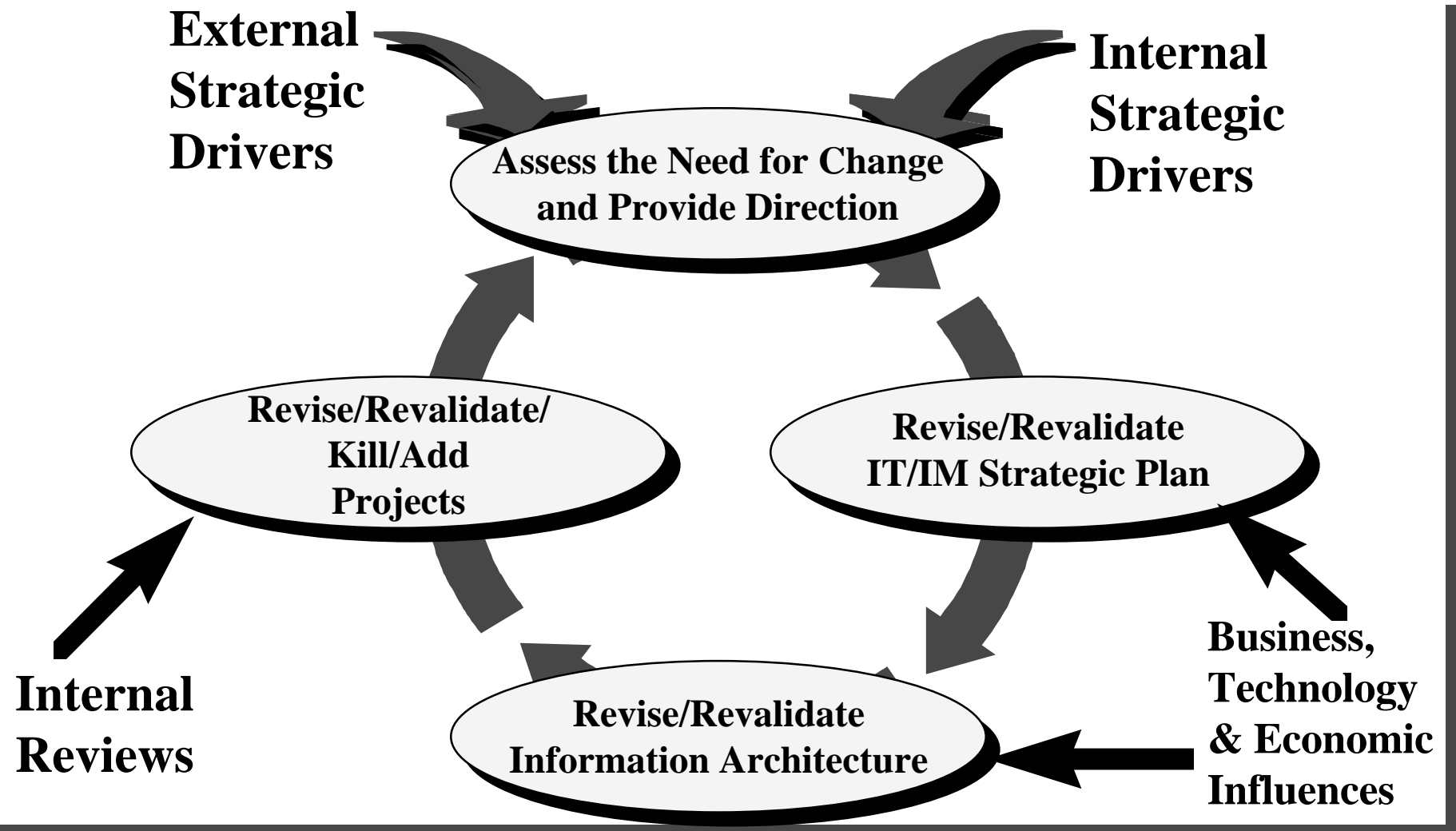
# **IT/IM Environment Mission Statement**

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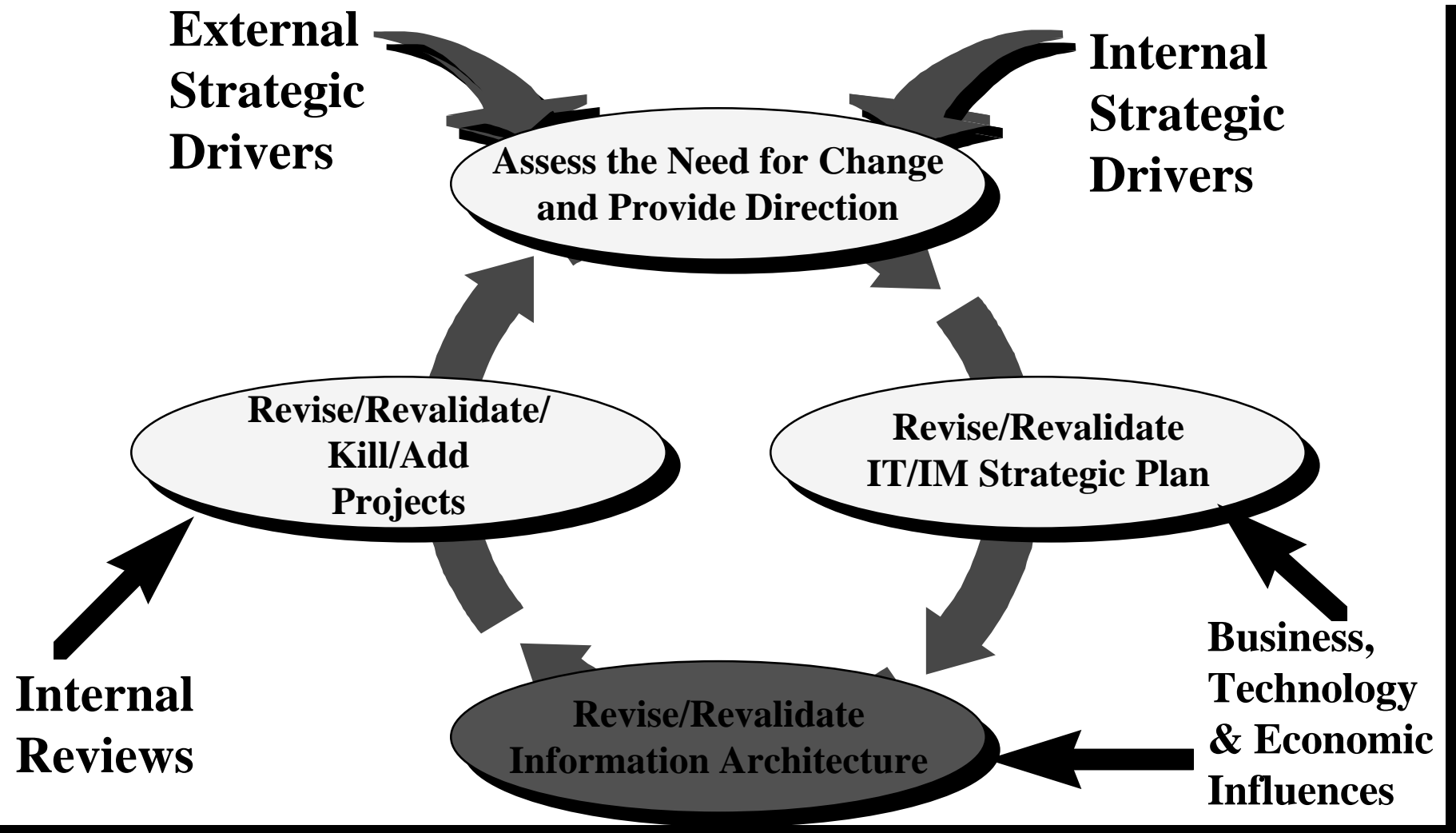
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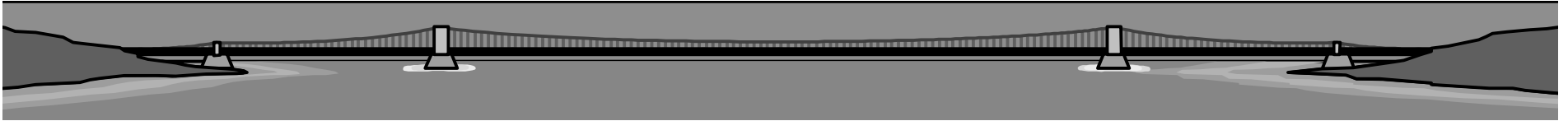
The IM mission is to provide USACE employees and contractors with the capability to readily acquire, store, share, use, disseminate, and protect the information needed to successfully accomplish their jobs; and to acquire and sustain an IT environment that supports USACE business strategies and goals while improving mission performance and customer satisfaction.

# IT/IM Strategic Planning Process



# IT/IM Strategic Planning Process





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# **ARCHITECTURE 2000+**

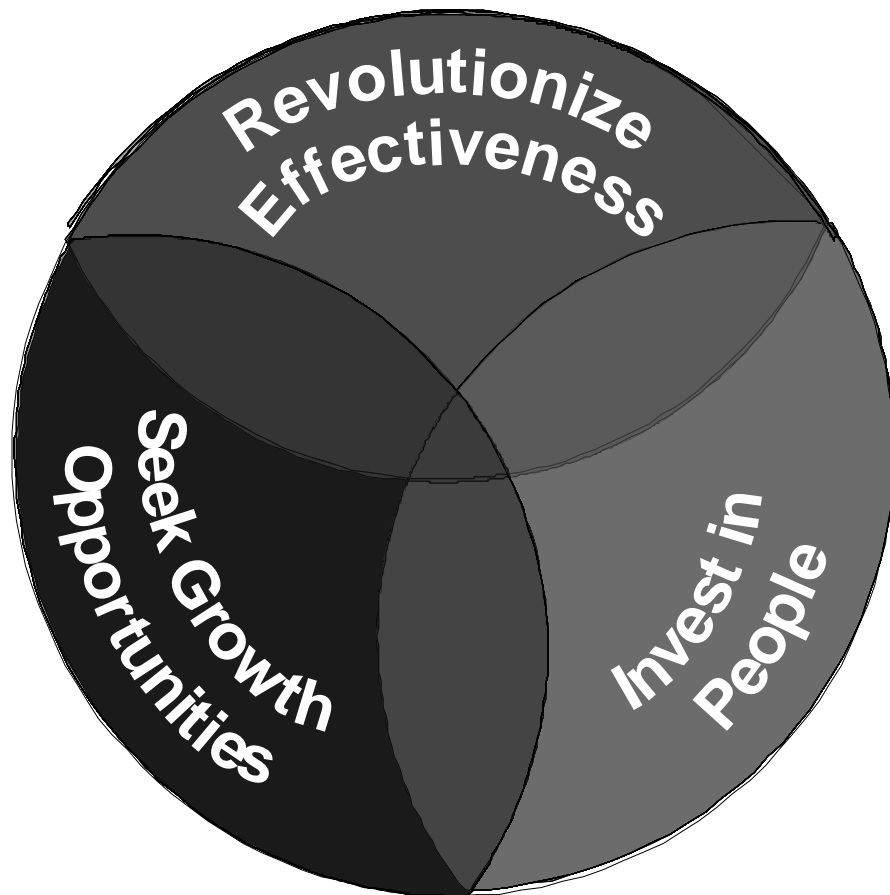
## **INFORMATION BRIEFING TO BOARD OF DIRECTORS**

**WEB SITE for A2k+:**  
**<http://www.usace.army.mil/im/ceimp/arch.html#PH2>**

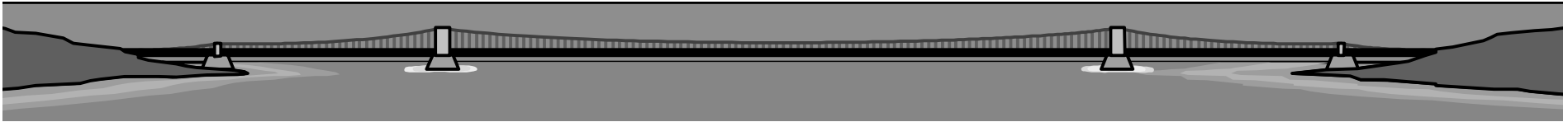


# STRATEGIC VISION

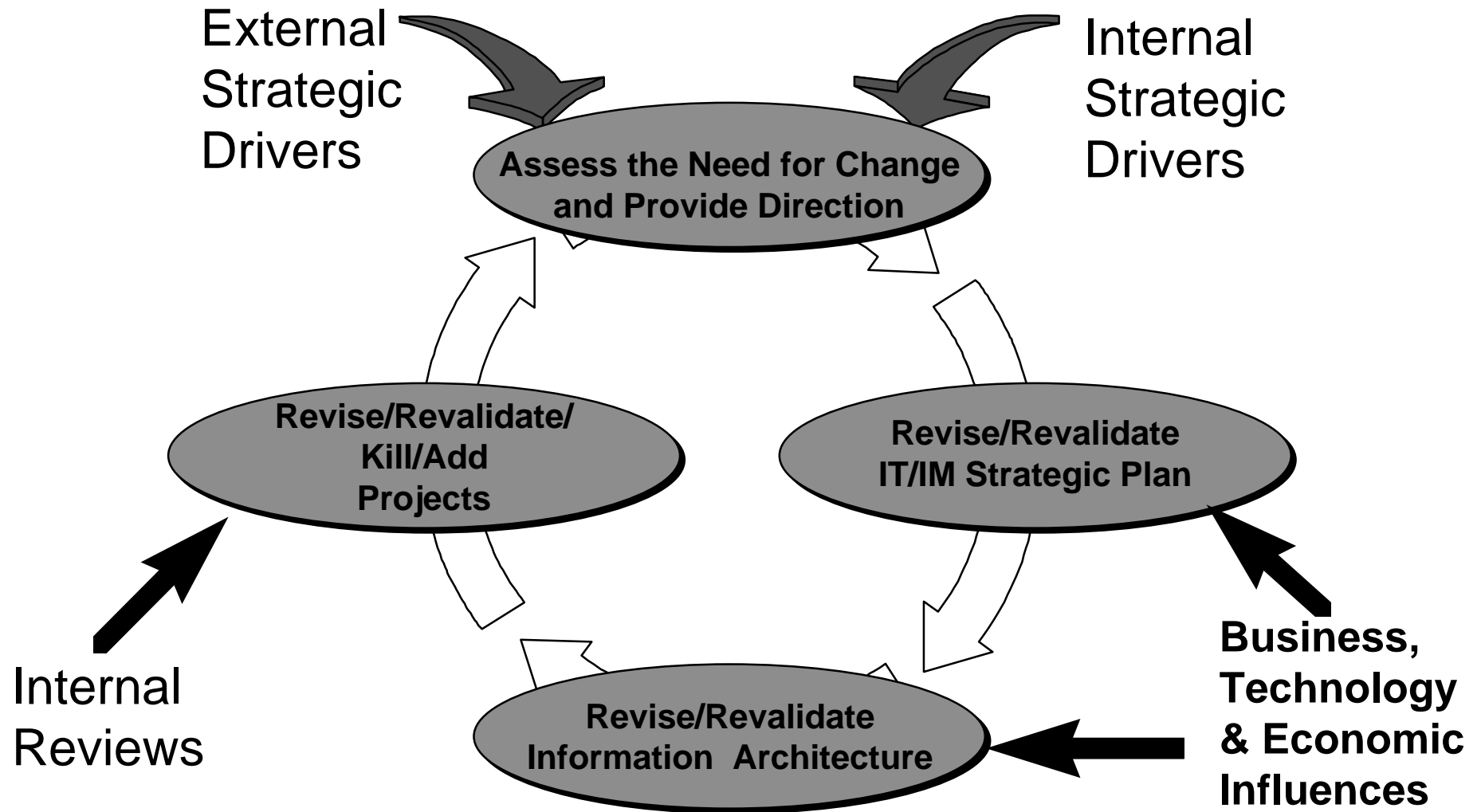
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- Sets the Direction for Organizational Change
- Establishes the Top Level Guidance for IT/IM Planning



# STRATEGIC PLANNING PROCESS



# DEFINITION OF USACE INFORMATION ARCHITECTURE

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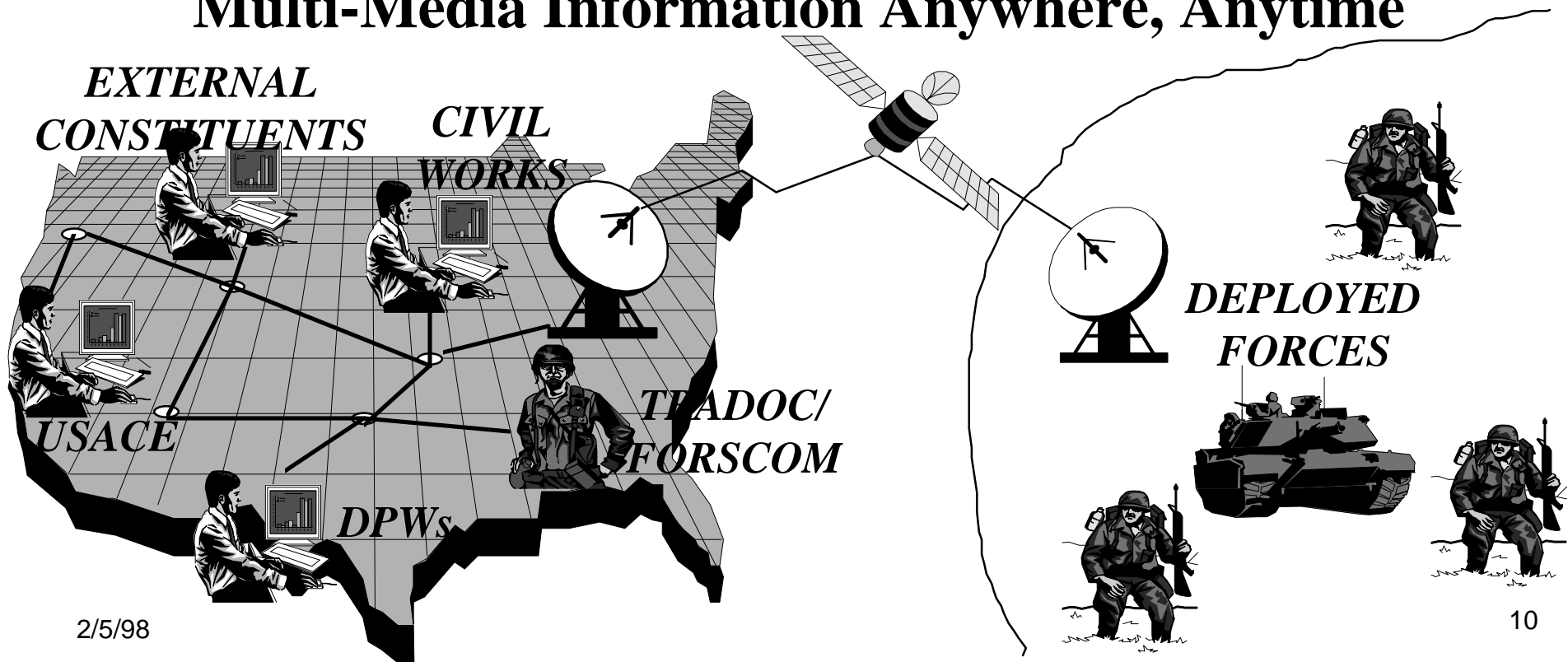
**Definition: The USACE Information Architecture is an integrated framework for evolving information resources to achieve our strategic goals.**

**This integrated framework consists of:**

- **Results descriptions**
- **Business, information, applications and technology components**
- **Component interrelationships**
- **Principles and guidelines governing component design**
- **Products and services to build components**

# ***THE USACE FUTURE IT ENVIRONMENT***

The Ability for Authorized Users  
to Transparently  
Create, Retrieve, Update, Delete, Exchange and Share  
Multi-Media Information Anywhere, Anytime



# CHARACTERISTICS OF THE FUTURE IT ENVIRONMENT

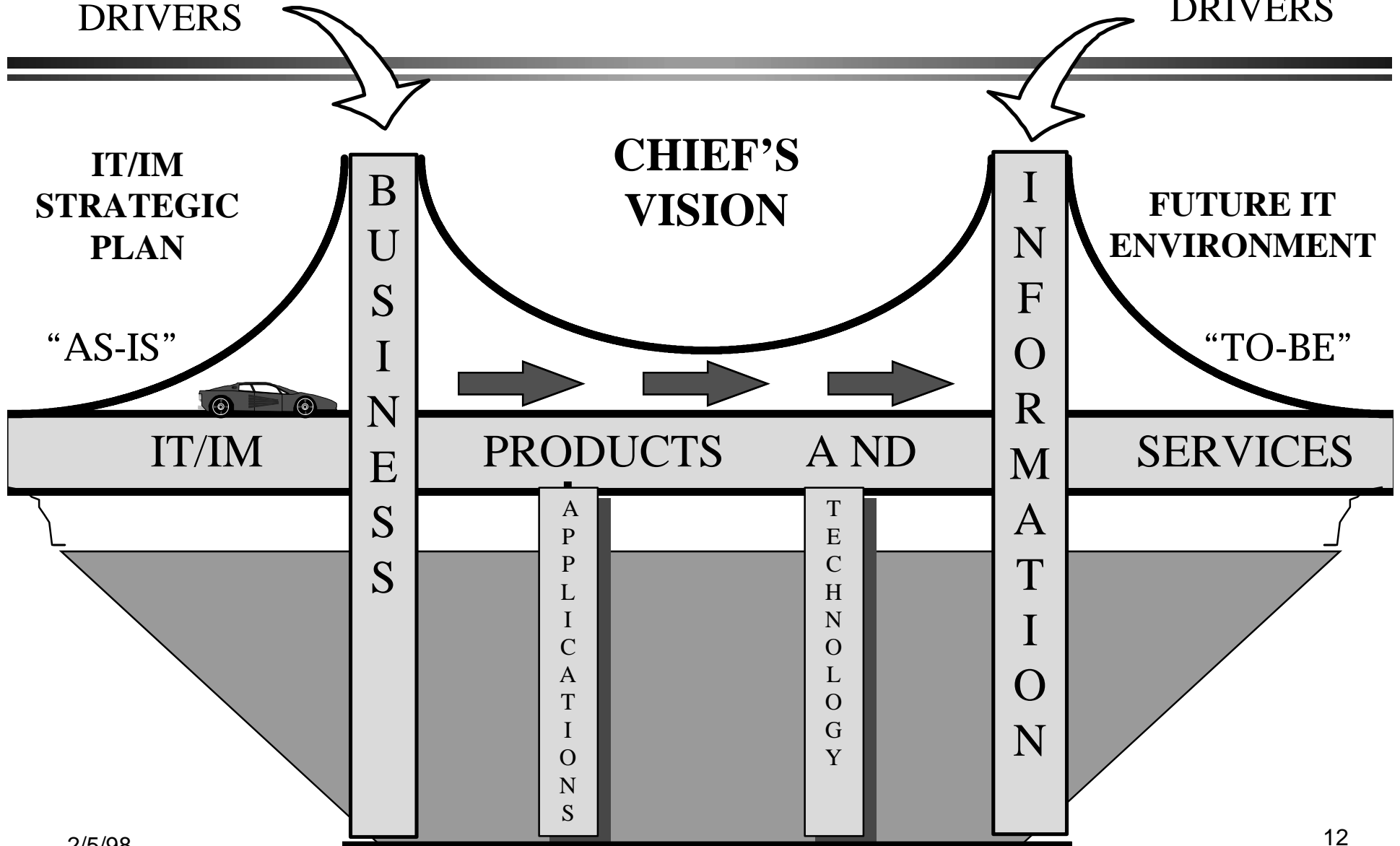
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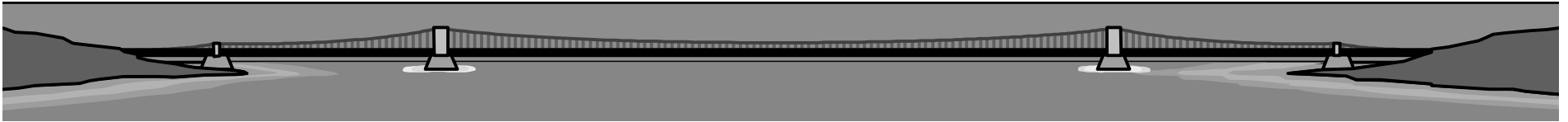
- **Dynamic Environment and Moving Target**
- **Information-Centric**
  - » **Web-Based**
  - » **Single Authoritative Source of Data, Replicated as Needed**
- **Mobile Users**
- **Mix of “Pushing” and “Pulling” Information**
- **Open, Flexible Applications and Technologies**
- **Global Reach**
- **Secure**
- **Multi-Media Interface (Voice, Touch, Sight, and Sound)**
- **Agile Network and Infrastructure**
- **Technology and Application “Commodities”**

# ARCHITECTURE FRAMEWORK

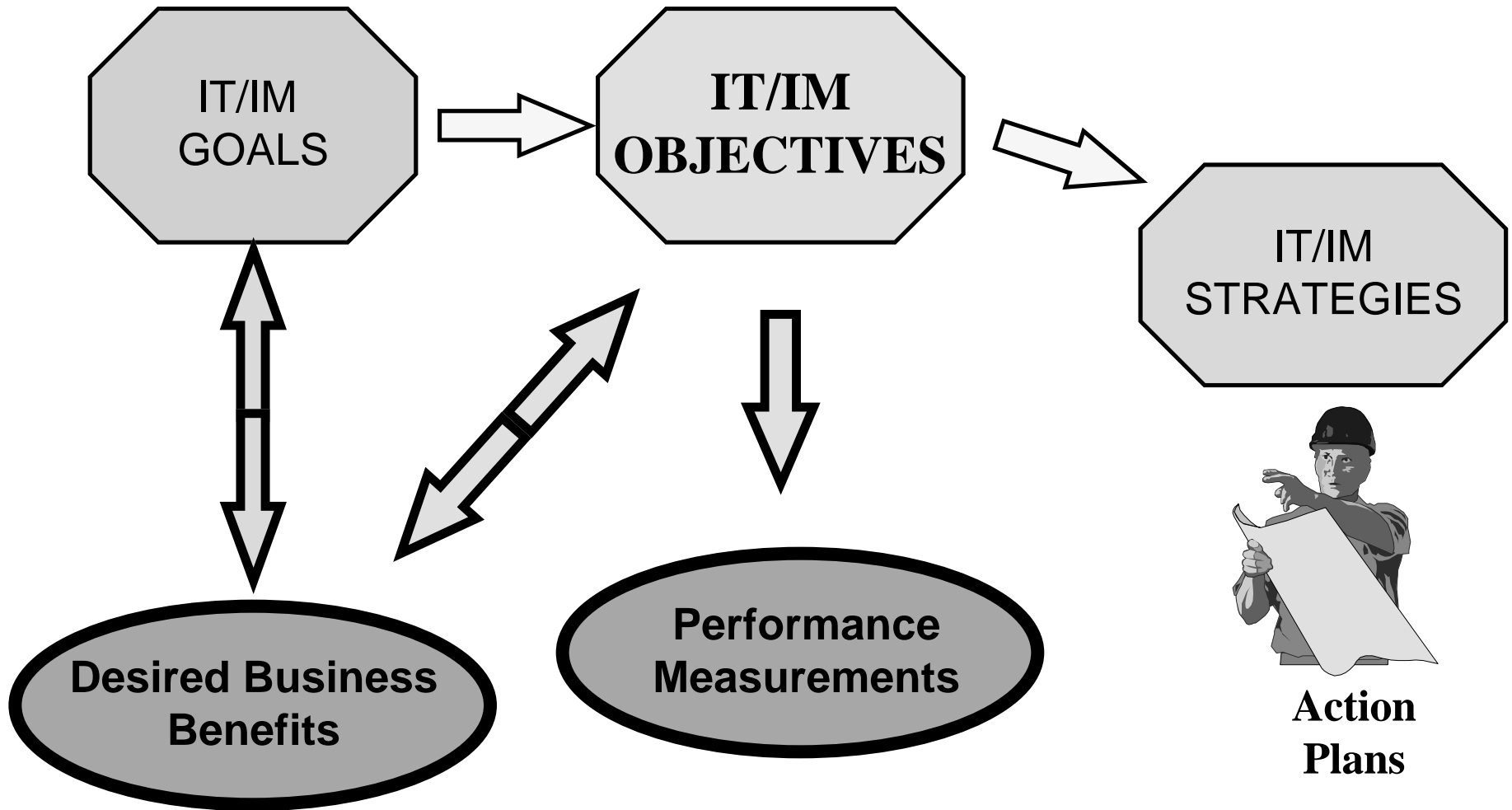
EXTERNAL STRATEGIC DRIVERS

INTERNAL STRATEGIC DRIVERS





# IT/IM STRATEGIC PLAN



# **IT/IM Migration Strategy**

## **Goal (6)**

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- Transparently Share Information
- Promote a Common Working Environment
- Protect Information
- Satisfy Internal/External Customer Information Needs
- Be Cost Effective
- Plan for the Future Use of IT



# Corps Plus ↔ Action Plans





# Lay out the Infrastructure

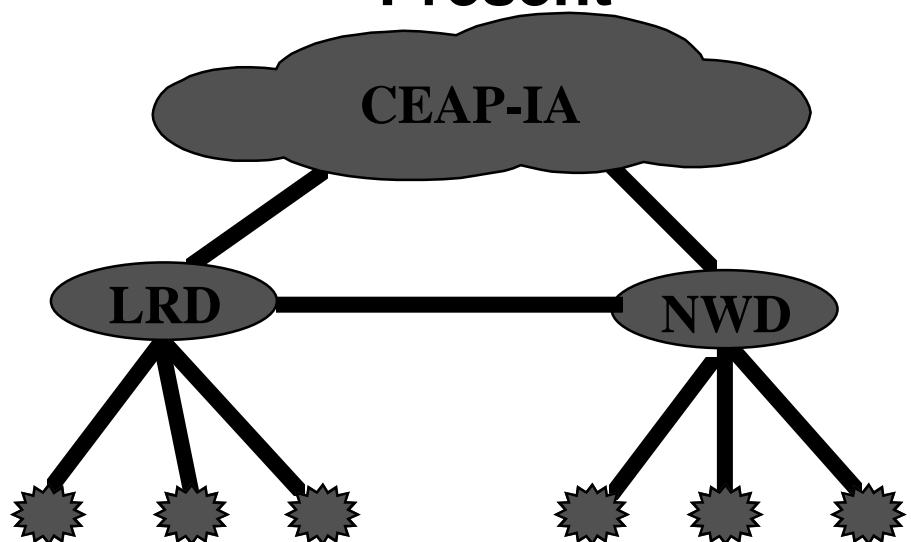
## Information Delivery

<b>Today</b>	<b>FY98</b>	<b>1999-2000</b>
<p><b><u>Tech</u></b></p> <ul style="list-style-type: none"><li>■ Redundant T1 at 12 CONUS Hubs</li><li>■ Single T-1 to CONUS Districts</li></ul> <p><b><u>Capability</u></b></p> <ul style="list-style-type: none"><li>■ Div have redundant Circuits</li><li>■ Districts = Move data, E-mail</li></ul>	<p><b><u>Tech</u></b></p> <ul style="list-style-type: none"><li>■ Backup 56 kbps Circuits</li><li>■ ISDN, dedicated circuit, or Frame Relay below District</li></ul> <p><b><u>Capability</u></b></p> <ul style="list-style-type: none"><li>■ Redundancy to District level</li><li>■ All Corps of Engineers has access to CEAP</li></ul> <p><b><u>Cost</u></b></p> <ul style="list-style-type: none"><li>■ 56 kbps = 900K (Annual)</li></ul>	<p><b><u>Tech</u></b></p> <ul style="list-style-type: none"><li>■ T-3 ATM to 7 CONUS Division HQ</li><li>■ 2 T-1s to POD</li><li>■ Redundant T-1s to Districts</li></ul> <p><b><u>Capability</u></b></p> <ul style="list-style-type: none"><li>■ Redundancy Desktop VTC at Div</li><li>■ 5 Concurrent Desktop VTC at District</li></ul> <p><b><u>Cost</u></b></p> <ul style="list-style-type: none"><li>■ T-3 +2T-1s =1.7M</li><li>■ Redundant T-1s = 1.8M</li><li>■ Avg. = 60K/year</li></ul>



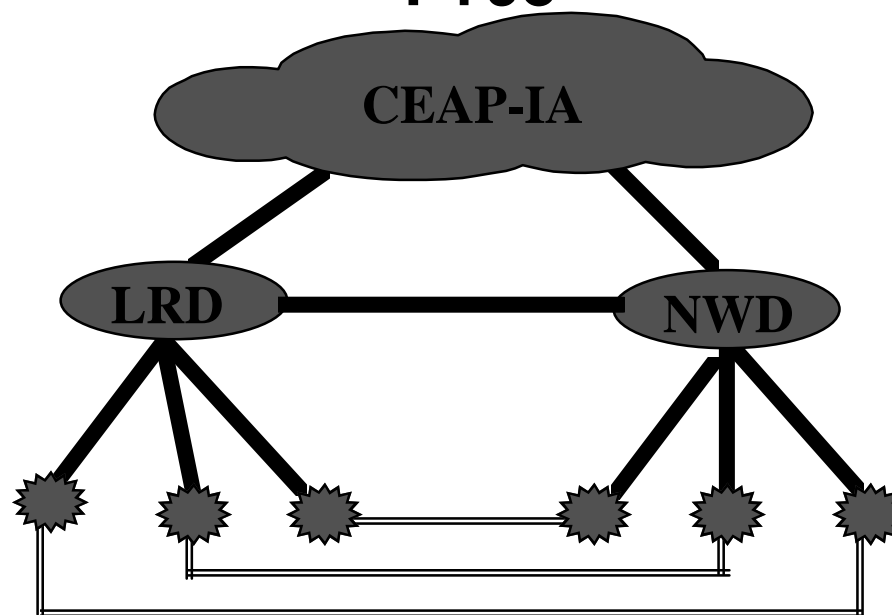
# Lay out the Infrastructure Information Delivery Redundant Circuits at the District Level

## Present



- 12 CONUS Divisions/Regions Connected with Redundant T1
- POD 256k Primary with 56 kbps backup
- CONUS Districts Connected via Single T1 Link
- POJ & TAE Single 256k; POF Single 128k
- Connectivity to Most Area and Resident Offices

## FY98

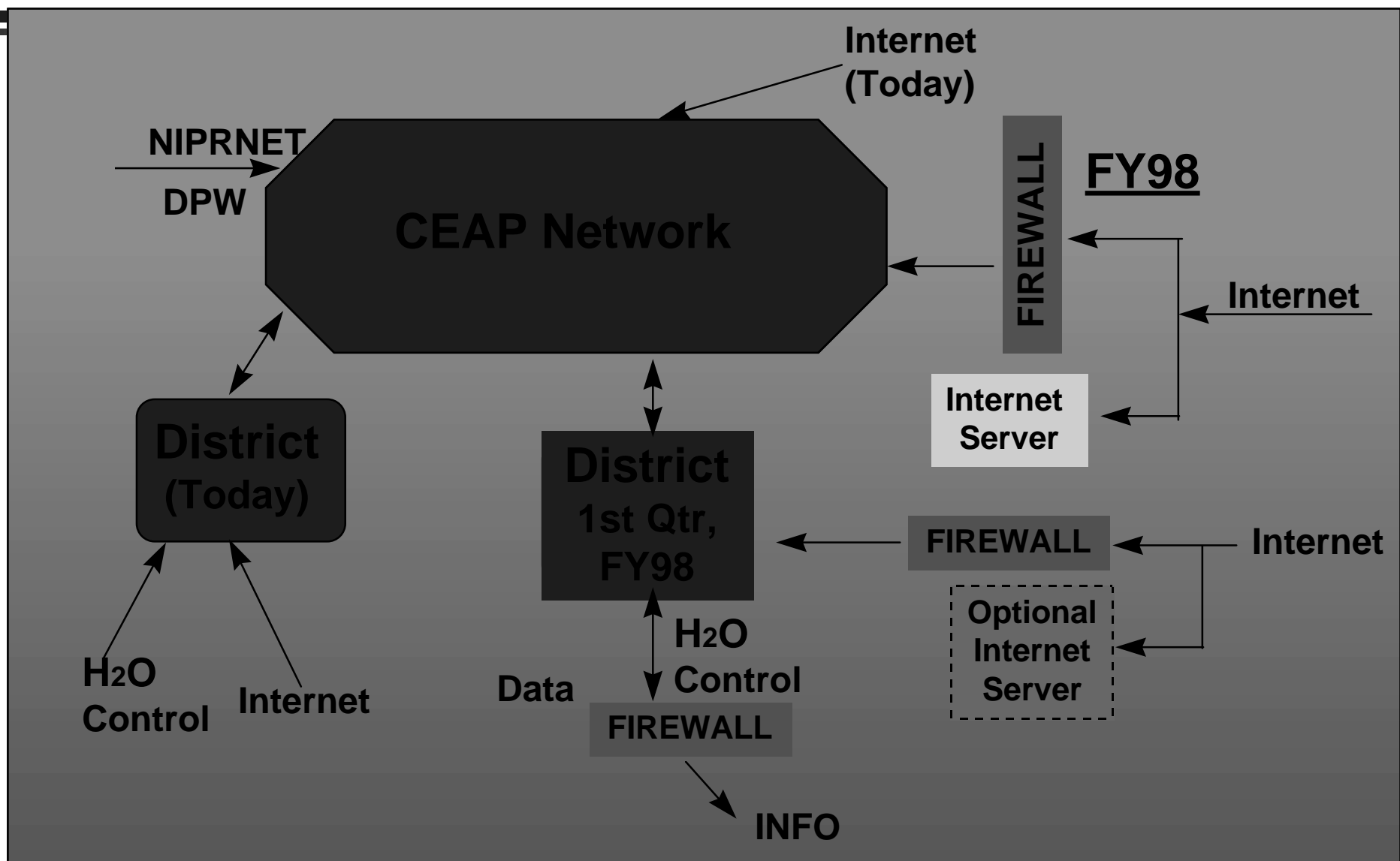


### Enhancements

- Backup 56 kbps Circuits Provided to all Districts \$900,000
- Connectivity Provided to Remaining Area and Resident Offices Survey Required to Determine Cost



# Enhanced Security & Protection Firewalls





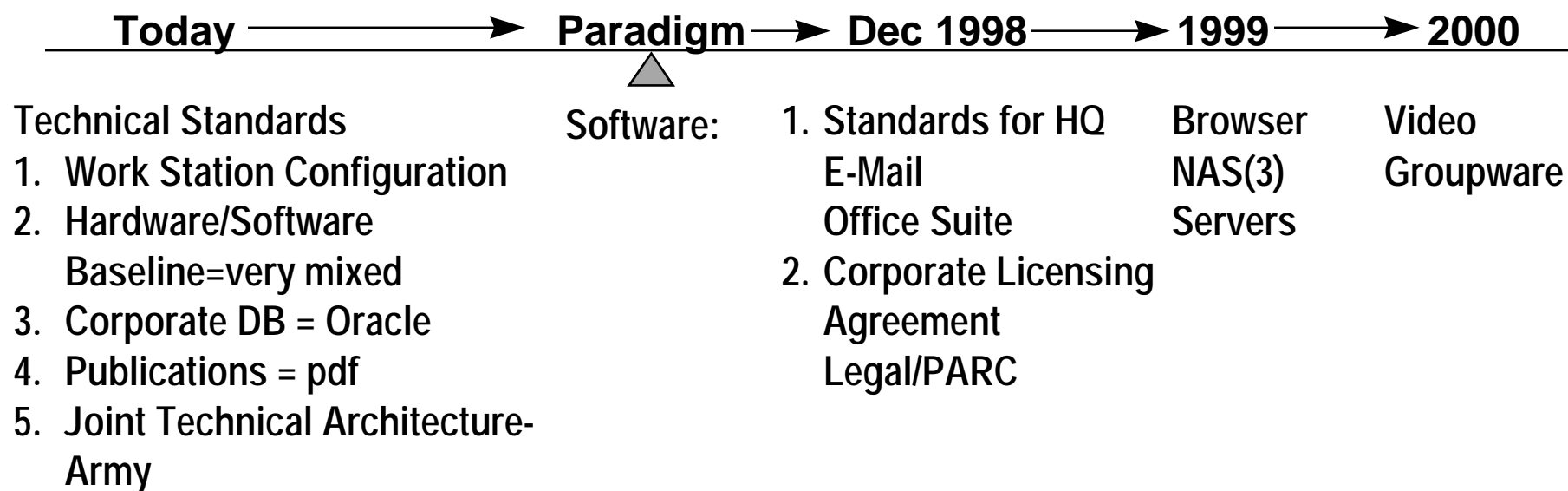
# Standardize Software at the Desktop Level

## Fully Integrated Business Process

### Standardized E-mail & Office Automation Suite

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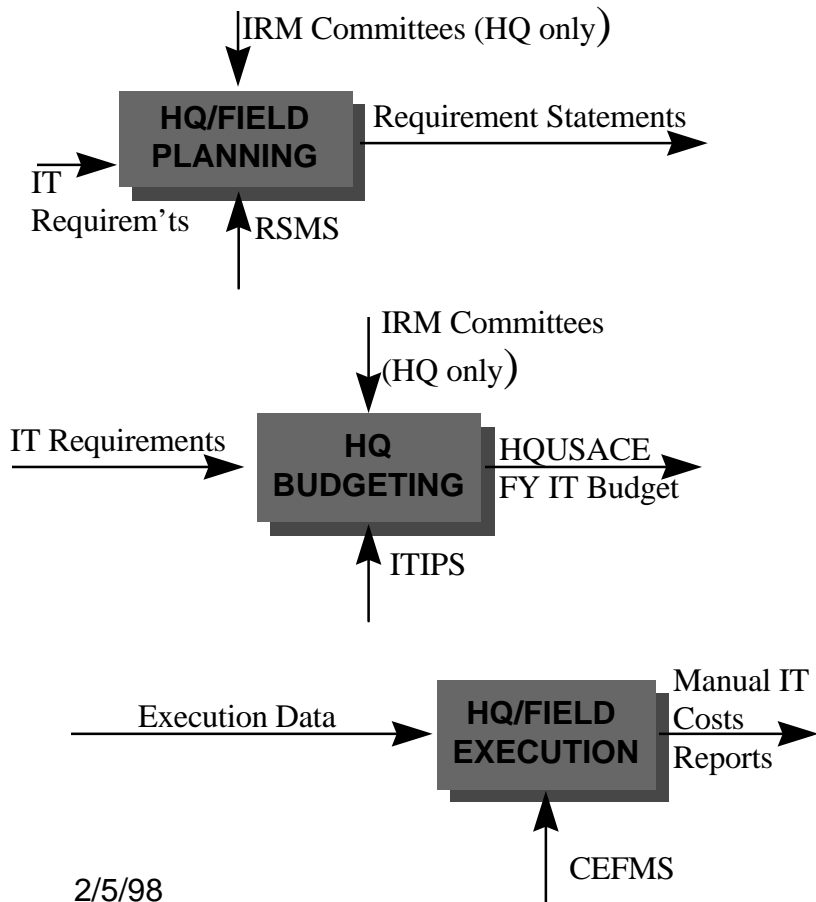


# The Corps of Engineers needs a plan to control cost

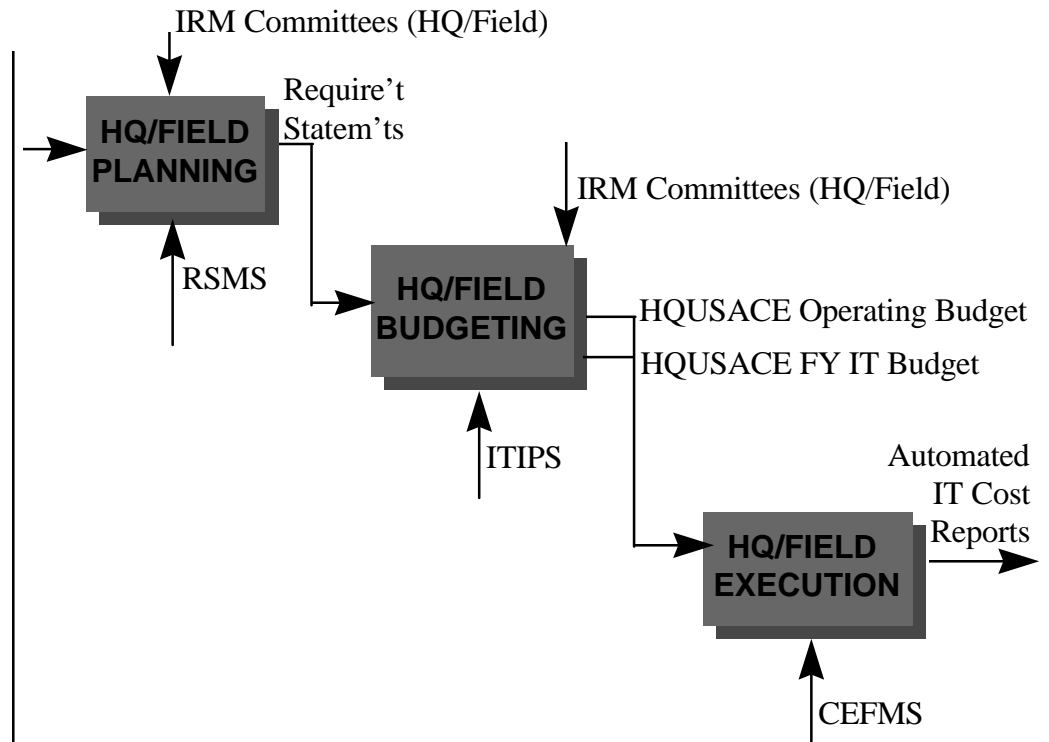
## IM Develop a plan for tighter control to the desktop level

### Reduce the Cost of Doing Business

#### CURRENT



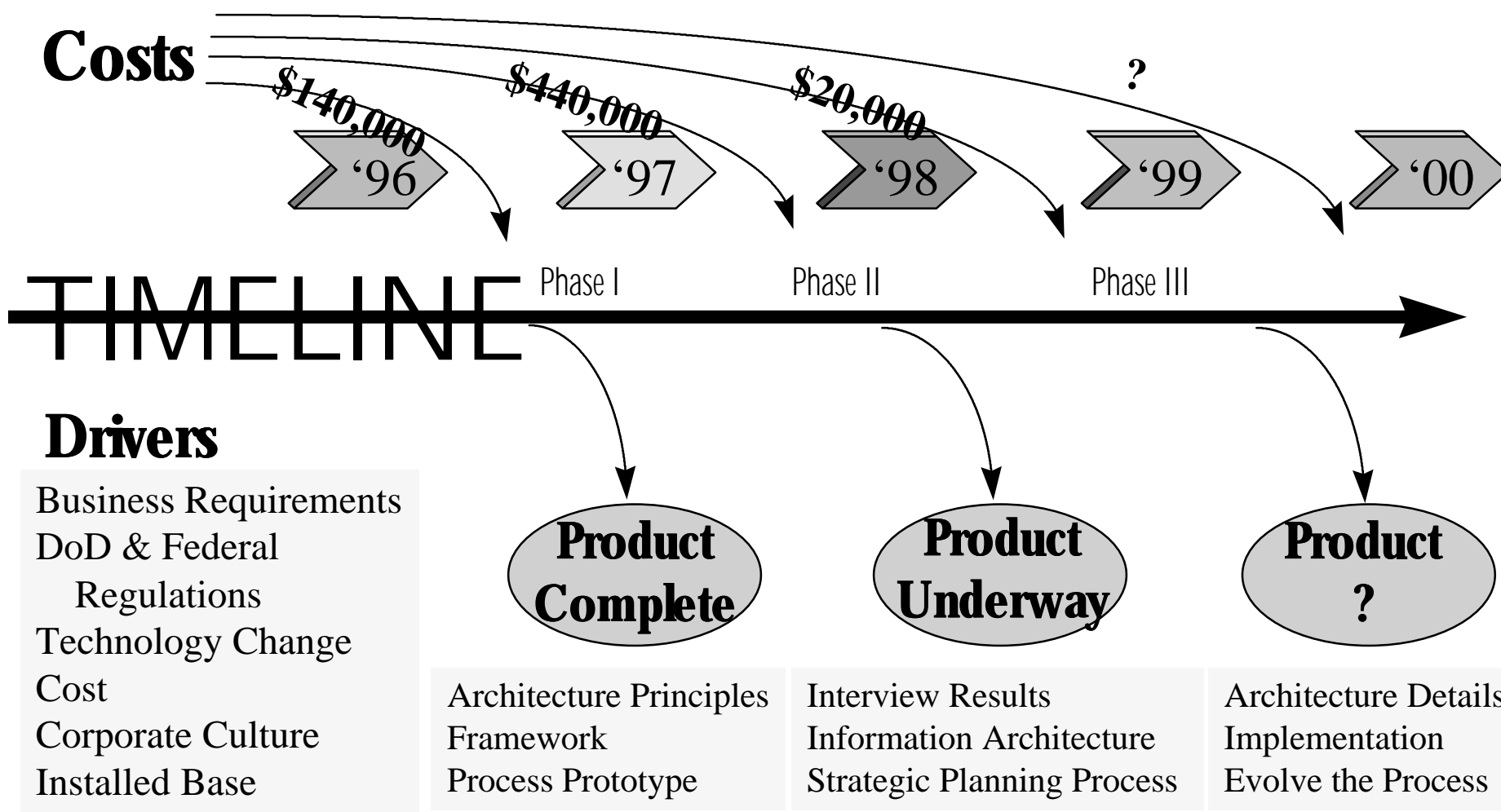
#### FUTURE





# Reshape the Culture

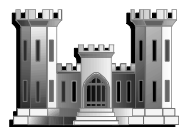
## Architecture 2000+



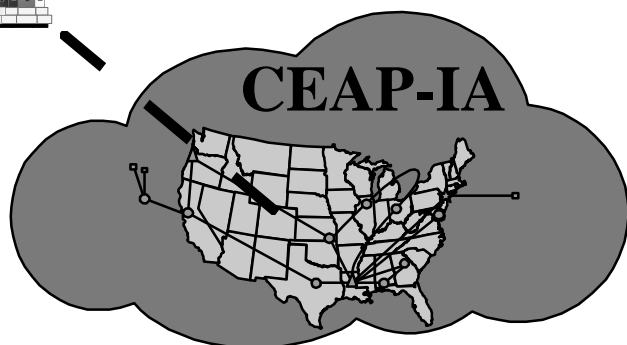


# Customer Satisfaction

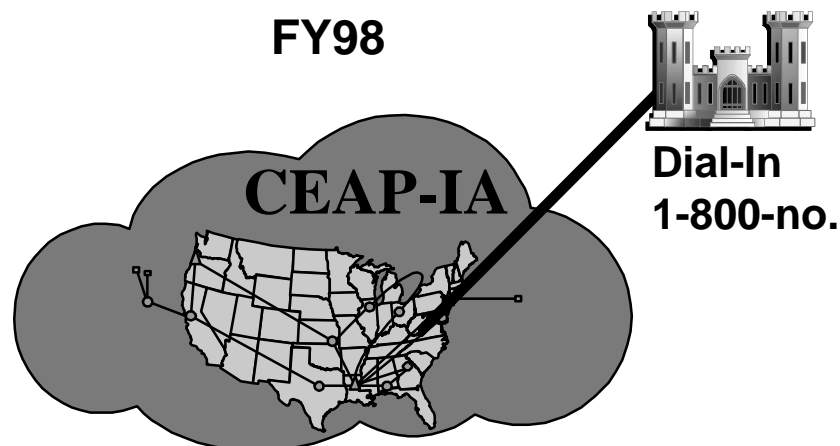
## Enhance E-mail Capability at DPWs



Today



FY98



**Estimated Annual Cost**  
**Estimated Completion**

**\$500,000**  
**30 Aug 98**

### Capabilities:

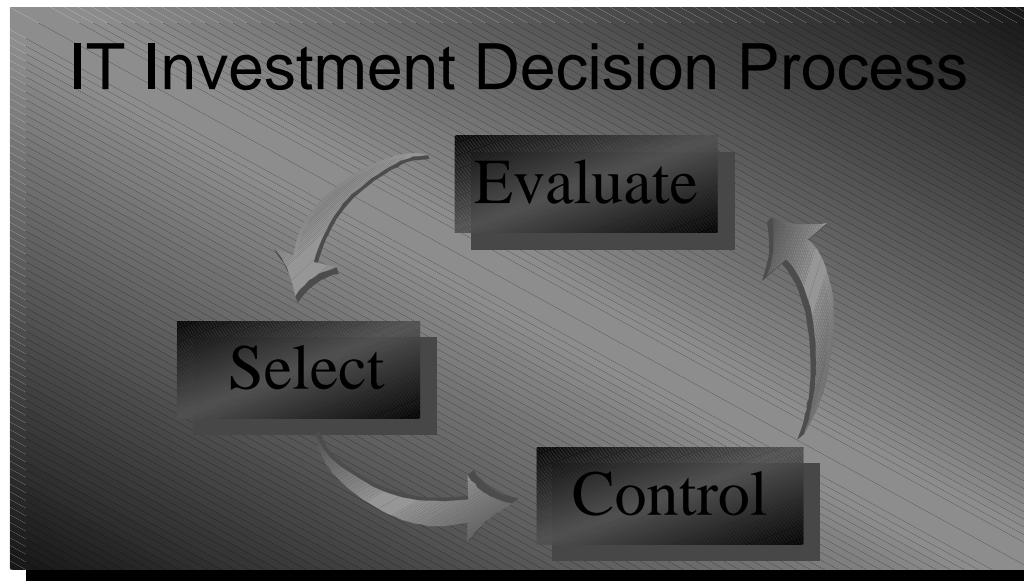
Mail Boxes for Those Without  
File Transfer Capability  
Internet Access  
Web Services  
DPW Home Pages  
Web Browsing

# IT Capital Planning and Investment Concepts

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## 3 Key Questions

1. Should the Corps be doing this work at all?
2. Can someone else (government agency or private sector) do the work better?
3. If not, is the work organized and being done the best way possible



# IT/IM Strategic Plan Benefits

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“To achieve our Vision and get out in front of the changes required by technology and the future realities, we must strike out boldly... Success will come from a carefully sculpted, aggressive plan.”

Lieutenant General Joe N. Ballard  
Commander  
U.S. Army Corps of Engineers

# Conclusion

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- **APPROVAL**

- » BOD Approval of IT/IM Strategic Plan
  - IT/IM Strategic Planning Process
  - Corporate IT Initiatives for CY 1998
  - IT Capital Planning and Investment Concepts

- **RELATED ISSUES**

- » Development of IT Acquisition Strategy
  - PARC Should Have Lead
- » HR Strategic Training Plan Must Address Corps-wide IT Skill Set Requirements